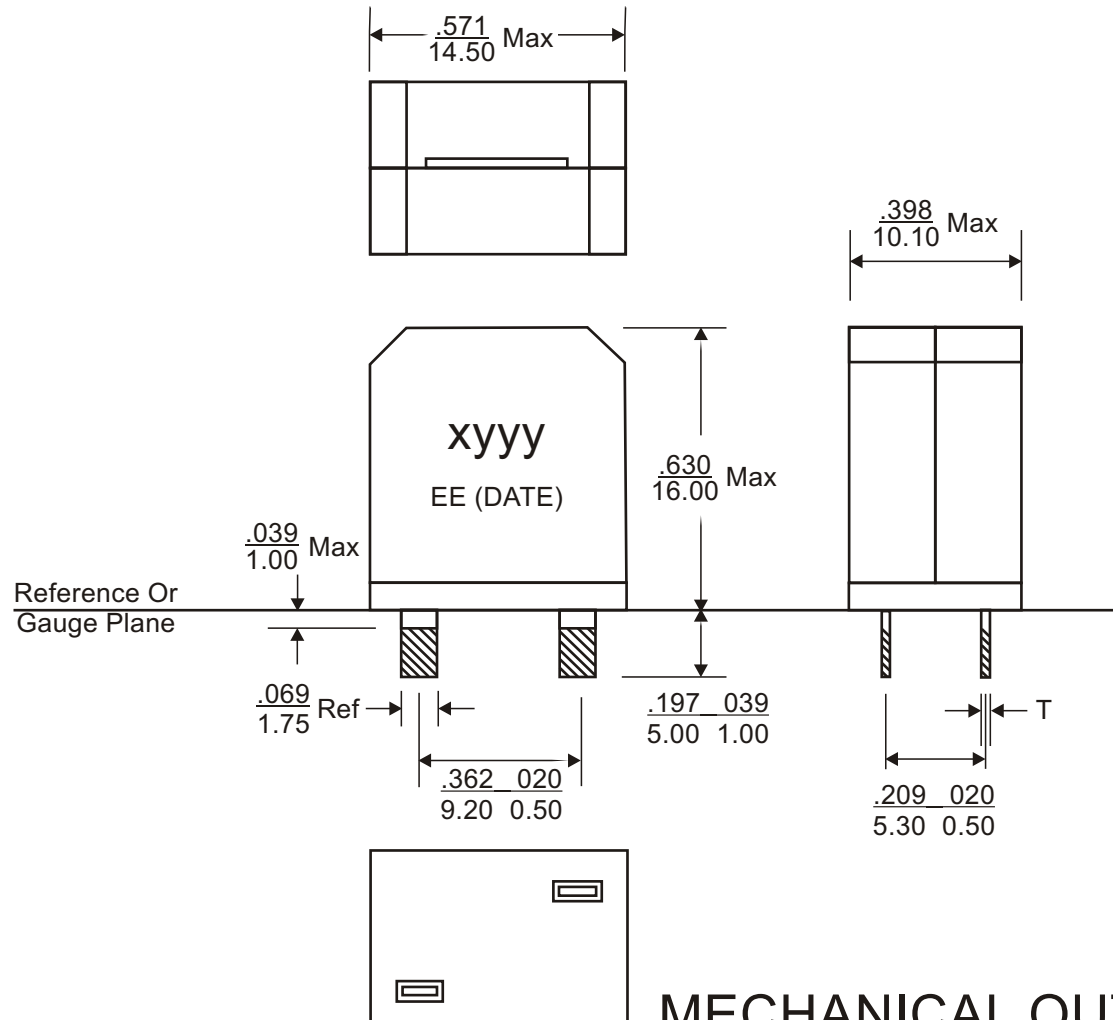


Part No.	T(mm)	Marking
ASEPT1016M-502F	0.60 ref	M502
ASEPT1016M-103F	0.50 ref	M103
ASEPT1016M-153F	0.50 ref	M153
ASEPT1016M-183F	0.45 ref	M183
ASEPT1016M-223F	0.45 ref	M223
ASEPT1016M-273F	0.40 ref	M273
ASEPT1016M-333F	0.35 ref	M333



MECHANICAL OUTLINE



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DRAWING NO./MODEL

ASEPT1016x-yyyF

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PAGE

2

OF

5

- Dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
- Unless otherwise specified, all tolerances are $\frac{.010}{0.25}$.
- "(DATE)" includes at least the manufacturing date code(in YYWW format).

ELECTRICAL SPECIFICATION @20 C:

E&E Part Number ASEPT1016x-yyyF	$\triangle 6$ Inductance (uH)	Inductance Tolerances(%)	DCR (m) Max	$\triangle 7$ Isat (A)	$\triangle 8$ Irms (A)
		M			
ASEPT1016M-502F	5.0	25%	5.1	18.2	14.1
ASEPT1016M-103F	10.0	25%	9.1	13.4	11.5
ASEPT1016M-153F	15.0	25%	9.1	8.7	11.5
ASEPT1016M-183F	18.0	25%	10.1	7.9	9.8
ASEPT1016M-223F	22.0	25%	11.4	7.2	8.5
ASEPT1016M-273F	27.0	25%	13.8	6.6	7.5
ASEPT1016M-333F	33.0	25%	15.0	5.8	7.3

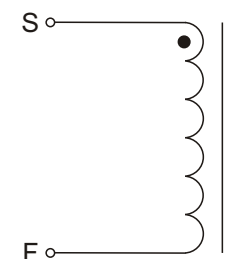
4. Operating temperature range: -40°C to +105°C.

5. The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

$\triangle 6$ Inductance test at 1kHz, 0.1Vrms, 0Adc

$\triangle 7$ Inductance drop by 25% typical at Isat.

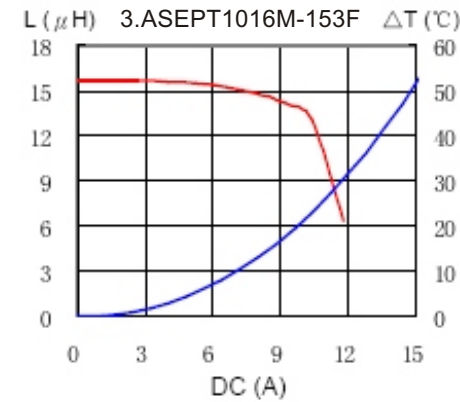
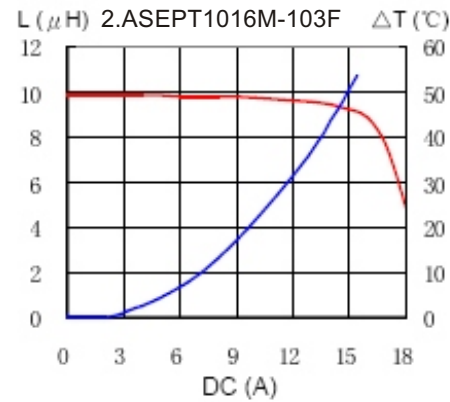
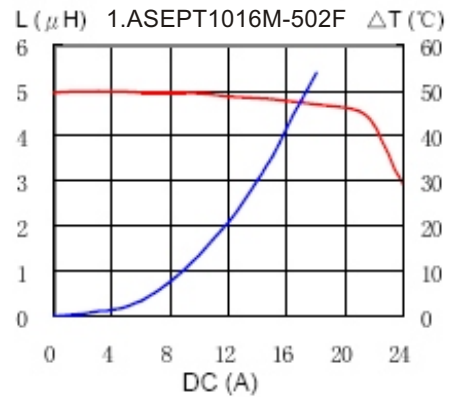
$\triangle 8$ The heating current, Irms, is the DC current required to raise the component temperature by 40°C at an ambient temperature of 20°C.



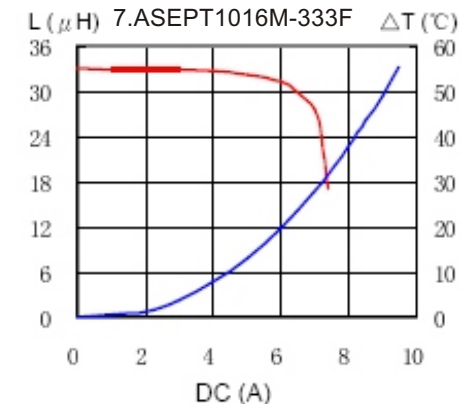
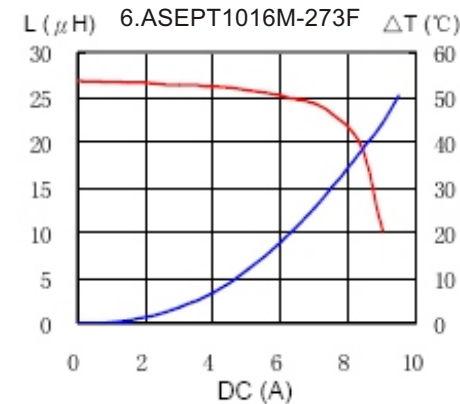
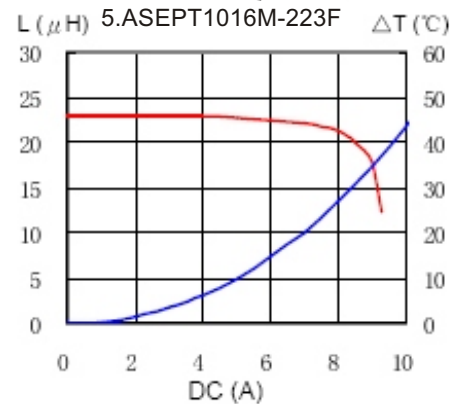
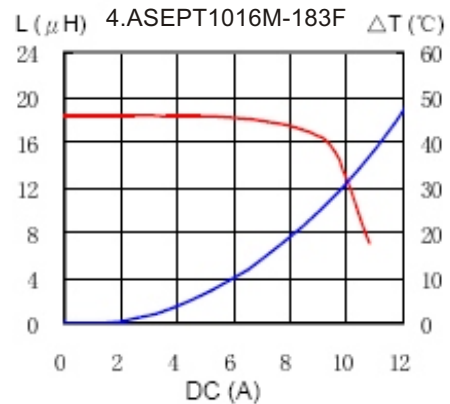
SCHEMATIC

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SCALE	PAGE	OF
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Saturation Current & Temperature Rise Graph



— Ls(20 C)
— ΔT



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PAGE

4

OF

5